MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE, DOMINION OF CANADA

FEBRUARY 1930

TEMPERATURE

The movement of anticyclonic systems from Alaska down the Rocky Mountains and the plateau regions, which was such a characteristic feature of the weather of January 1930, gave place in February to a movement from Alaska eastwards into the far northwest of Canada, thence southeastwards to the Great Lakes. Some very cold weather was experienced in the Lake region and the northeastern part of the continent during the first two weeks and again just at the close of the month. The greater part of the continent, however, was dominated by a circulation which for the most part carried air from the Pacific, the tropics and the Atlantic, inland and northward. From the eighteenth to the twenty-fifth this movement of warm air attained its maximum, producing spring-like weather. During this period all previous records of warmth in February were exceeded in the Great Lakes region except that of February in 1890.

In the Mackenzie valley and parts of the Yukon, the mean temperature was one to twelve degrees colder than the normal February temperature. Part of the northern British Columbian coast was a little colder than the normal while the deficiency in part of the highlands of Quebec and on the North Shore of the Gulf, was one to three degrees. Elsewhere in Canada, except locally in the Atlantic Provinces, mean temperatures were in excess of the February normal temperature, by four to twelve degrees in Ontario, and by one to nineteen degrees in the prairie provinces.

PRECIPITATION

Precipitation was deficient in Alberta, southern Saskatchewan, southern and eastern Ontario, the St. Lawrence valley and the Gulf regions and parts of the Atlantic Provinces. There was an excess in British Columbia, the central portion of the grain belt in Saskatchewan, in Manitoba, northwestern Ontario, southern New Brunswick, Prince Edward Island and a part of Nova Scotia; also in the far northern regions for the most part, so far as yet known.

BRITISH COLUMBIA

Except on the northern coast, February was generally mild and wet in British Columbia.

In the interior valleys the excess over normal temperature was five to ten degrees, but the precipitation, so far as yet reported, was rather irregularly distributed, some districts receiving twice the normal amount while others reported a deficiency.

On Vancouver Island and the lower mainland, the excess over normal temperature was two to six degrees, while the excess over normal precipitation was generally about fifty per cent.

ALBERTA, SASKATCHEWAN and MANITOBA

The month was very mild except at the end of the second week and at the close of the month. Over the grain region mean temperatures exceeded the normal by eight to nineteen degrees. In Manitoba and the central portion of the grain districts of Saskatchewan, precipitation exceeded the normal amount. Elsewhere there was a deficiency.

Since the first of September, 1929, to the first of March, 1930, over the western grain region, precipitation has been distributed as follows:—In Alberta the total amount for this period varied according to district from twenty per cent in excess of normal to sixty per cent in defect, with the general total about five per cent in defect. In Saskatchewan the total for this period varies from thirty per cent in excess of normal to twenty per cent in defect, with the general total approximately normal. In Manitoba the general total is fifteen per cent in excess of normal although some districts reported an excess of fifty per cent or more.

ONTARIO

The month was quite cold at intervals until the evening of the seventeenth when a period of extraordinary warmth began which lasted till almost the end of the month. Except in February of 1890 no such high temperatures were experienced generally in this province, while the unseasonable warmth lasted for a longer period than had previously been recorded.

Precipitation was in excess of the normal amount northwest of Lake Superior, but generally in defect elsewhere.

QUEBEC

The month was very mild from the eighteenth to the twenty-third in southwestern Quebec, although some very severe weather occurred during the early part of the month. Mean temperatures were six degrees in excess of normal in the lower Ottawa and Upper St. Lawrence valleys but somewhat colder than normal in the highlands and in the Gulf region.

Precipitation was generally deficient in the St. Lawrence valley with bare ground shewing at the end of the mild period.

ATLANTIC PROVINCES

Mean temperatures were generally above normal in these provinces by one to three degrees with local exceptions.

In northern New Brunswick precipitation was a little below the normal amount. In central New Brunswick and in the Bay of Fundy district there was a small excess over normal. In Nova Scotia, except in Cape Breton and locally elsewhere, there was a moderate excess. In Prince Edward Island there was a large excess principally on account of heavy snowfalls.

A strong gale on the sixteenth caused heavy damage to wharves and buildings on the southwest coast of Nova Scotia, particularly in the vicinity of Saint Mary Bay and Digby Neck, and was accompanied by snow and drifting over a considerable area.

HUDSON STRAIT

The month was generally mild over Hudson Bay, Hudson Strait and Greenland. Mean temperatures in the Strait and at Churchill were two to four degrees above normal.

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month; Column Sg denotes depth of snow on ground in inches, where given.

ALBERTA, SASKATCHEWAN, and MANITOBA

STATION	H	L	P	I	Sg.	SPECIAL REPORTS
Beaver Lodge	43°	-22°	0.4	122		
Edmonton	50°	-24°	0.1	121		February has been a comparatively mild month with no great extremes in temperature, very light snowfall and average sunshine. Live stock in good condition. No outdoor operations reported up to date. Sleighing has been poor and wheel vehicles have been in use since the 19th. River ice soft and ice cutting was finished on the 24th.
Calgary	62°	-12°	0.3	134		
Medicine Hat	60°	-12°	0.1	87		Range stock wintering well.
Prince Albert	47°	-40°	0.5		5	Ice 32 inches thick. Roads generally in poor condition. Park highway reported good for autos for forty miles north of here.
Battleford	47°	-34°	0.4		18	Ice 35 inches thick.
Scott	43°	-34°	0.6	91		
Swift Current	52°	-18°	0.1	84		Very mild during part of month followed by a cold spell. Creek began to break up on the 19th.
Moose Jaw	50°	-24°	0.9	92		
Qu'Appelle	47°	-28°	0.5	117		A mild month. Rain on 19th.
Le Pas	39°	-41°	1.1			
Minnedosa	43°	-30°	1.2			Food for cattle is scarce.
Winnipeg	43°	-29°	1.5	84	16	
Birtle	45°	-35°	0.5			With the exception of one extremly cold sharp wave, temperature was moderate throughout the month. The mild weather of the 18th, 19th and 20th melted the snow considerably.
Morris	45°	-27°	1.6		30	Although the weather is clear and cold, water is appearing on the Red River.
Treherne	47°	-33°	2.4		24	Feed for stock will be scarce.
Brandon	43°	-35°	...	102		Cold wave from 12th to 15th. Spring-like conditions from 18th to 23rd followed by two-day blizzard precipitating 15 inches of snow. Weather conditions at this air port not favorable for aviation.
Swan Lake	45°	-32°	1.8		30	During the third week of February there was a heavy thaw and spring-like weather, followed by cold and a heavy precipitation of snow.
St. Albans (Treesbank)	49°	-30°	2.6		24	Thaw from the 17th to the 22nd and live stock were able to get feed on prairies. Snowfall of 12.3 inches on night of the 24th.
Morden	50°	-26°	2.2	95		
Dauphin	46°	-37°	...			Good sleighing.
Russell	43°	-35°	...			
Sprague	46°	-42°	2.6			
Pinawa	50°	-42°	1.3			
Great Falls	47°	-45°	0.9			
Moose Horn Bay	41°	-39°	1.2		16	
Oak Bank	47°	-30°	1.7			

ONTARIO

Kenora	47°	-29°	2.0			
Quorn	50°	-43°	1.7		4	
Port Arthur	50°	-22°	0.9		8	Roads nearly bare of snow. Work in the forests ceased on account of the mild weather. Thunder Bay is covered with a sheet of ice varying from 12 to 30 inches thick to a distance of about 12 miles from shore.
White River	52°	-50°	1.1		12	Following the many warm days during February several inches of water lies on top of the ice on inland lakes, while patches of bare ground are shewing in several places.
Kapuskasing	53°	-47°	1.6	110		
Cochrane	52°	-34°	2.2		6	
Ruel	62°	-50°	1.8		5	Ice averages 12 inches thick. Much snow and ice disappeared during the mild weather but a return to wintry conditions towards the end of the month allowed work in the bush to be resumed.
New Liskeard	45°	-48°	0.4	97		
Parry Sound	50°	-28°	2.2		4	On the first of March there were 12 inches of clear ice on the Sound and on Mill Lake. Sleighing poor.
Scotia Junction	46°	-35°	1.1		12	During the exceptionally mild weather the snow completely disappeared in some places.
Washago	...	...	2.2		10	Thickness of ice on Lake Couchiching 16 inches.
Barrie	50°	-20°	2.9		8	Thickness of ice 16 inches. During the first part of the month there were about 2 feet of snow on the ground but during the third week much snow disappeared leaving the ground partly bare of snow.
Beatrice	48°	-33°	2.1		18	
Walker's Point	49°	-41°	2.9	95	20	
Beeton	61°	-4°	1.6		6	
Mount Forest	55°	-20°	1.4		12	Temperatures fell below zero on 9 days during February. The end of the month, however, was very mild with much thawing and rivers is flood. The average temperature of the month was 21° which is 6° higher than the normal February temperature at this point.
Alton	63°	-16°	3.8		6	Good clear ice 16 inches thick is being harvested at the end of February.
Southampton	57°	-20°	3.2		6	There was some anxiety among farmers regarding the effect upon the winter wheat of the exceptionally mild weather during the third week of February. Ice on the river was broken and went out on the 23rd. Ice on Lake Huron considerably broken.
Lucknow	58°	-10°	1.9		1	During the mild weather of the third week roads were sufficiently open for motor traffic.
Woodstock	58°	-9°	2.6	84	1	Below zero on 3 days. Remarkably mild during the third week.
Paris	57°	-12°	3.1		1	Ice on the river broken on the 21st.
London	58°	-6°	2.8		2	The third week was very mild and spring-like. Fifty-eight degrees was registered on the 23rd, a temperature which has been exceeded only once in previous Februarys. In February 1890 a temperature of 58.6° was recorded.
Harrow	67°	2°	1.1	88		The period from the 18th to the 25th was exceptionally warm. The temperature of 67° recorded during this period was 9° higher than the previous record of high temperatures in February.
St. Catharines	56°	5°	2 3	68		
Toronto	55°	-6°	2.3	89		
Peterboro'	54°	-26°	3.2		9	Unusually mild weather obtained from the 18th to the 25th when creeks were in flood.
Queensboro'	47°	-33°	2.1		0	Ice 22 inches thick and of excellent quality is now being cut and stored. Excellent sleighing first part of the month but ground mostly bare at the close.
Healey Falls	44°	-20°	2.5		0	
Bloomfield	52°	-25°	2.0		1	
Kingston	48°	-14°	0.8	100	0	No sleighing since the thaw beginning on the 19th. Ice in the harbour 16 inches thick.
Brockville	52°	-24°	0.7			Open water is now visible in the St. Lawrence River. Streams are overflowing their banks but no damage has yet occurred.
Morrisburg	52°	-27°	1.0		0	First half of the month cold, second half very mild.
Ottawa	54°	-19°	0.8		9	Ice 25 inches thick.
Ottawa (Exp. Farm)	47°	-30°	0.8	118		First 17 days cold followed by spring-like weather. Sleighing very poor.
Pembroke	53°	-25°	0.7			Sleighing finished. Ice cutting still in progress.
Sand Point	48°	-24°	0.6		8	Fogs during this month were the thickest experienced during a great number of years. Ice and frozen slush approximately 30 inches thick.
Clontarf	54°	-31°	0.7		1	Thickness of ice 18 inches.

QUEBEC

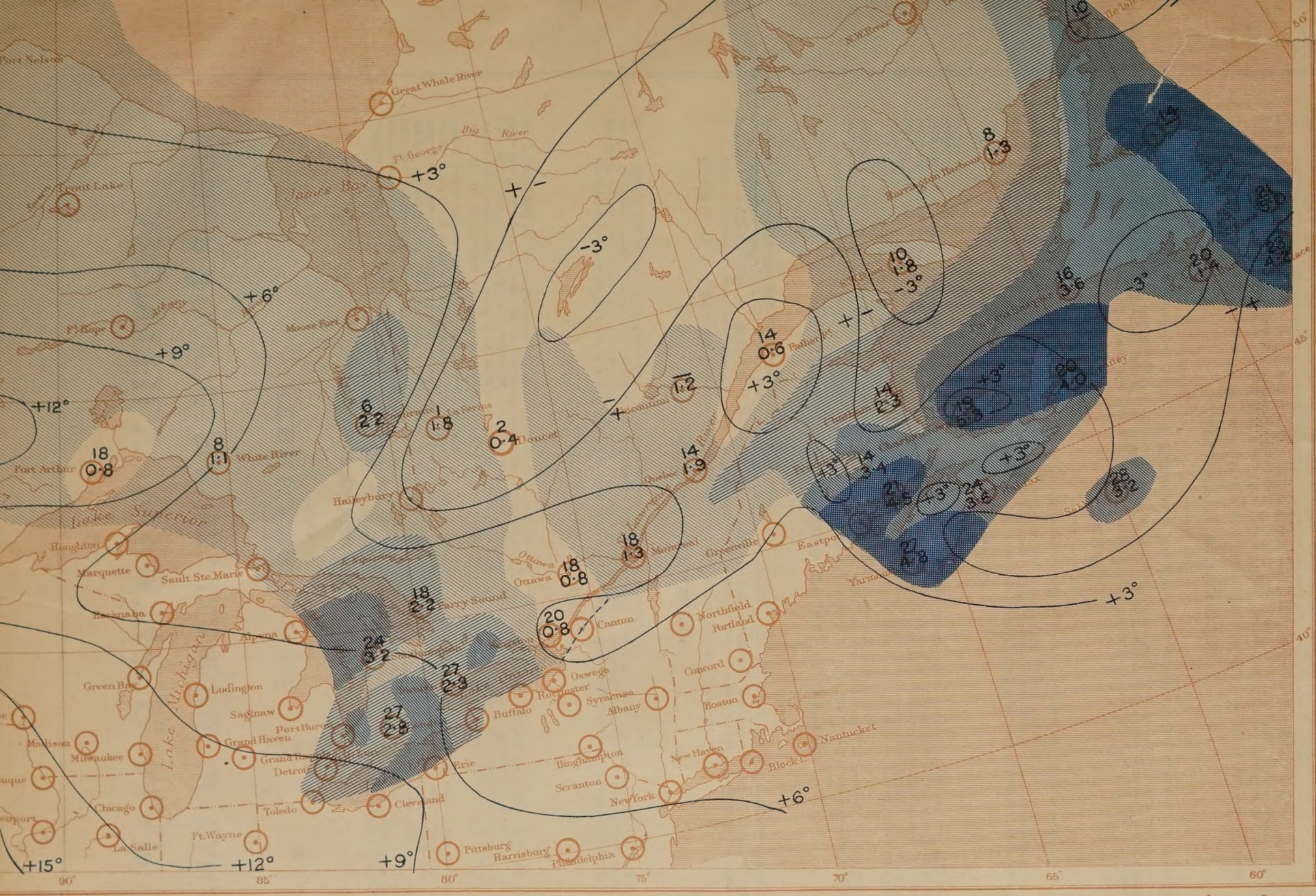
STATION	H	L	P	I	Sg.	SPECIAL REPORTS
Cedars	46°	-19°	1.2		5	Heavy fog on 6th and 9th.
Macdonald College	46°	-20°	1.4		6	Following the very mild week beginning on the 19th, the snow went away rapidly leaving roads and fields bare in many places at the end of the month.
Montréal	46°	-14°	1.3	111		
Farnham	48°	-32°	1.1	124	4	Ice mostly gone from the rivers while meadows are covered with water.
Brome	53°	-36°	1.9		0	River clear of ice and highways open for motor-traffic.
Sherbrooke	53°	-23°	1.5	122	0	Traffic difficult during mild spell. The drop in temperature at the end of the month stiffened the roads in the bush and improved conditions for lumbering.
Lennoxville	53°	-32°	1.8	128		This was the sunniest February since records began here.
Drummondville	50°	-28°	3.1		1	Ground bare in places at the end of the month. Wheel traffic since the 16th. Ice 7 inches thick.
Sorel	46°	-27°	1.5		11	Ice 33 inches thick.
Nicolet	46	-24°	1.9		14	
Donnacona	42°	-30°	1.3		18	Roads poor since the mild spell which began on the 20th.
Québec	47°	-18°	1.9	141	22	Temperature above and precipitation below normal. One gale (on 19th) 38 m.p.h. Ice 26 inches.
Cap Rouge	47°	-22°	1.8		34	
St. Joachim	44°	-27°	1.6		27	
Beauceville	48°	-35°	1.9		24	Very mild and thawing from 19th to 25th. Very cold first and last of the month.
Lake Mégantic	54°	-35°	0.4		21	Ice 18 inches thick.
Ste. Anne de la Pocatiére	40°	-18°	0.6	127	0	Very mild and mostly fine, last half of the month. Ground partly bare but sufficient snow or ice on the roads for sleighing.
Armagh	55°	-24°	0.5			
Chicoutimi	42°	-29°	1.2		14	Thickness of ice 28 inches.
Roberval	57°	-19°	0.7		18	The beginning and end of the month were cold but the period from the 18th to the 22nd was remarkably mild. Much snow disappeared from the uplands Roads passable.
Albanel	42°	-30°	0.4		18	Spring-like weather obtained during the latter part of the month.
Joliette	42°	-33°	1.3		8	Thickness of ice 32 inches. Sleighing good.
St. Lin des Laurentides	48°	-39°	1.3			Snowmobiles have been getting along nicely all winter. First wheel traffic began March 1st.
Huberdeau	48°	-30°	2.1		14	Following the great thaw, from the 19th to the 25th, sleighing has been poor.
St. Gabriel de Brandon	43°	-32°	1.4			Early part of the month cold, latter part mild and bright except frequent foggy mornings.
Maniwaki	48°	-33°	0.5			Ice going out of the Gatineau river on the 26th. Thaw began on the 13th.
Mont Laurier	46°	-36°	1.1			
Lucerne	...	...	...			Thickness of ice 22 inches. Great thaw from the 17th to the 22nd. Work in the woods nearly finished. Ice cutting from 17th to the 28th.
Abitibi Post	46°	-38°	1.9		17	First part of month cold and snowy. 18th to 24th like April with much snow melting. Ice 26 inches thick.
Ville Marie	48°	-32°	1.3		10	A very bright month. Ice 16 inches thick.
La Ferme	49°	-45°	1.8	115		

ATLANTIC PROVINCES

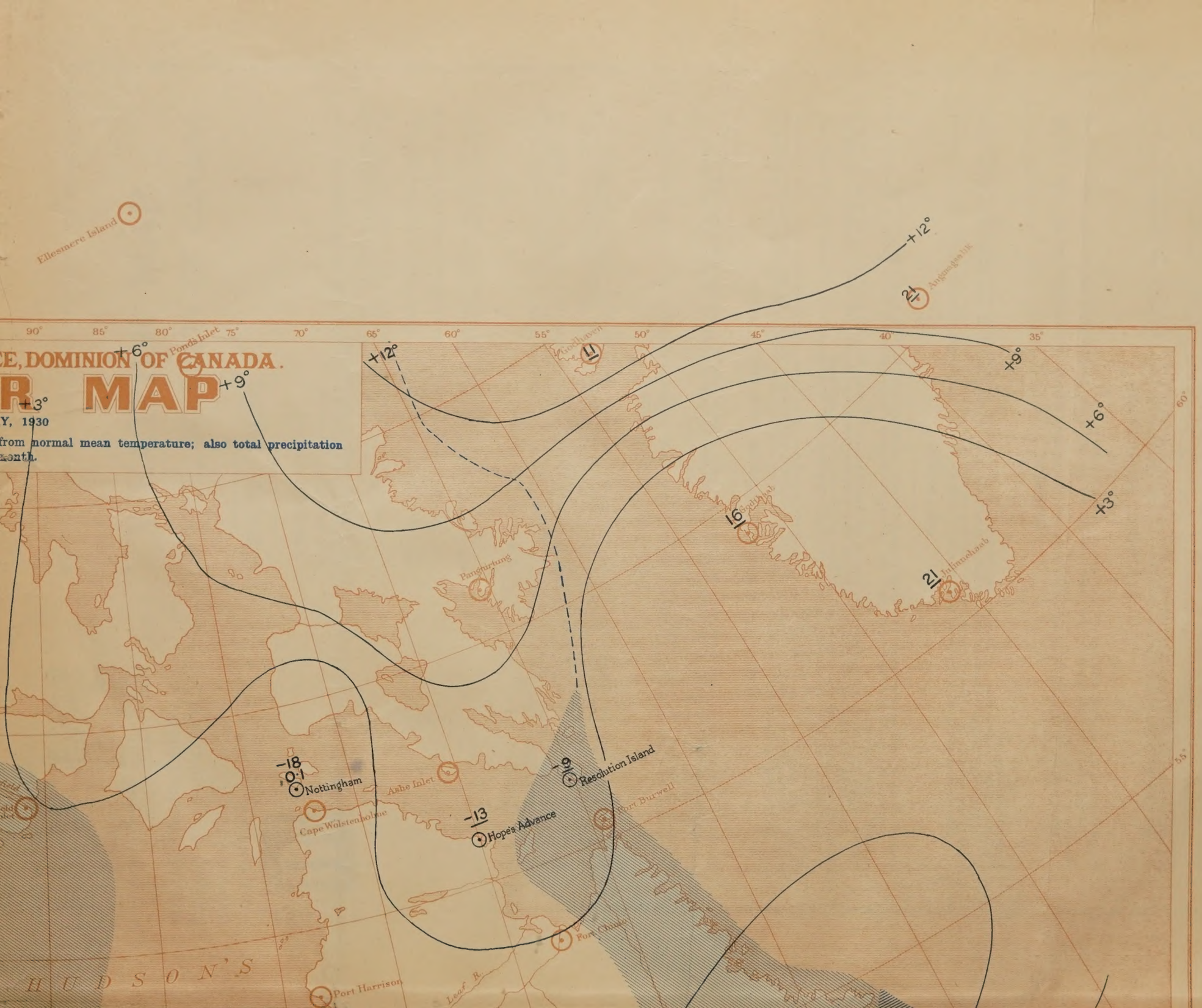
St. John	43°	-8°	4.5	113	3	The gale of the 16th accompanied by snow was the most severe experienced in recent years. Motor traffic completely disorganized by heavy snowdrifts.
Aroostook	50°	-35°	3.1		17	Severe snowstorms with heavy drifts on the 14th and 16th. Sleighing good all month.
Chatham	44°	-26°	2.3		12	Roads in good condition.
Edmundston	44°	-23°	1.3		10	
Fredericton	45°	-24°	3.4	126	15	Low temperatures during first part of month followed by mild weather at close.
Fredericton (Experimental Farm)	45°	-24°	2.9	128	10	First 12 days cold, last 10 days mild.
Gagetown	43°	-16°	4.6		6	Thickness of ice in lakes is 18 inches and 6 inches in channel of St. John River. Good sleighing.
Grand Falls	48°	-33°	2.6		36	
Harvey	51°	-28°	3.5		15	
Moncton	58°	-17°	2.6			
Musquash	43°	-20°	5.2		3	Ice in lakes 19 inches thick.
McAdam Junction	48°	-28°	4.2		6	First half of month very cold, latter part mild. Severe cold and high wind with snow on the 17th.
Nepisiquit Falls	52°	-27°	2.6		24	
Sussex	45°	-20°	3.6			Good sleighing during the month.
Woodstock	53°	-33°	2.3		24	
Halifax	47°	-2°	3.5		2	
Digby	51°	-1°	3.0			First part of month cold and dull. Very severe storm on the 17th with heavy snowfall and strong gale. Latter part of month mild and sunny.
Kentville	48°	-5°	3.6	101		Patches of snow on ground.
Liverpool	45°	-20°	6.5			Patches of snow on ground. Ice in lakes and ponds 13 inches thick.
Nappan	46°	-12°	3.2	123		Real winter weather with 7 sub zero days was experienced up to the 20th but quite mild during the last week leaving grass fields thinly covered with snow. It has been fairly favorable weather for lumbering operations.
Sydney	47°	10°	4.2		10	Thickness of ice on harbour 15 inches and on lakes and ponds 18½ inches.
Upper Stewiacke	52°	-20°	2.9			River open. Fields bare of snow but lumbermen still operating in woods on snow.
Wolfville	49°	-3°	3.6	125		The month has been milder than usual. Snow has gradually disappeared mostly as the result of warm winds.
Yarmouth	47°	-5°	4.8			The gale of the 17th was the most severe since 1917 and caused serious damage to wharves, breakwaters and fishermen's gear along the coast. All ice harvested is of poor quality. Ice in ponds and lakes 18 inches thick.
Charlottetown	47°	-6°	4.7		12	Ice in harbour 14 inches thick.
Charlottetown (Experimental Farm)	46°	-7°	5.3	129		Heavy northerly gale on the 16th destroyed many barns and chimneys while the snow blocked the roads for days.

BRITISH COLUMBIA

STATION	H	L	P	I	STATION	H	L	P	I	STATION	H	L	P	I
Victoria	54°	32°	5.2	85	Sooke	53°	26°	7.8		Agassiz	53°	28°	5.9	62
Vancouver	52°	28°	9.4	86	Duncan	55°	22°	8.6		Chilliwack	53°	24°	10.6	
Kamloops	55°	6°	0.6	146	Alberni	54°	23°	11.9		Oliver	64°	10°	0.7	96
Salmon Arm	52°	3°	2.4	89	Nanaimo	55°	28°	6.6	100	Vernon	50°	9°	...	112
Prince George	50°	-16°	1.0		New Westminster	54°	28°	11.3		Cranbrook	48°	-7°	0.2	
Prince Rupert	48°	25°	9.3		Sandwick	...	...	6.7		Glacier	40°	-9°	8.0	
Goldstream Lake	...	...	14.0		White Rock	57°	29°	6.5		Revelstoke	55°	11°	6.5	



Subscription Price of this Map $1.00 per Annum. Apply Secretary Meteorological Service Toronto


CE, DOMINION OF CANADA.
R MAP
Y, 1930
from normal mean temperature; also total precipitation
month.
+3°
+6°
+9°
+12°
Ellesmere Island
Pond's Inlet
Arctic Bay
Angmagssalik
Pangnirtung
Frobisher
Lake Harbour
Cape Wolstenholme
Ashe Inlet
Nottingham
Hope's Advance
Resolution Island
Fort Burwell
Fort Chimo
Port Harrison
Leaf R.
HUDSON'S
-18
-13
-9
11
19
21

REFERENCES.

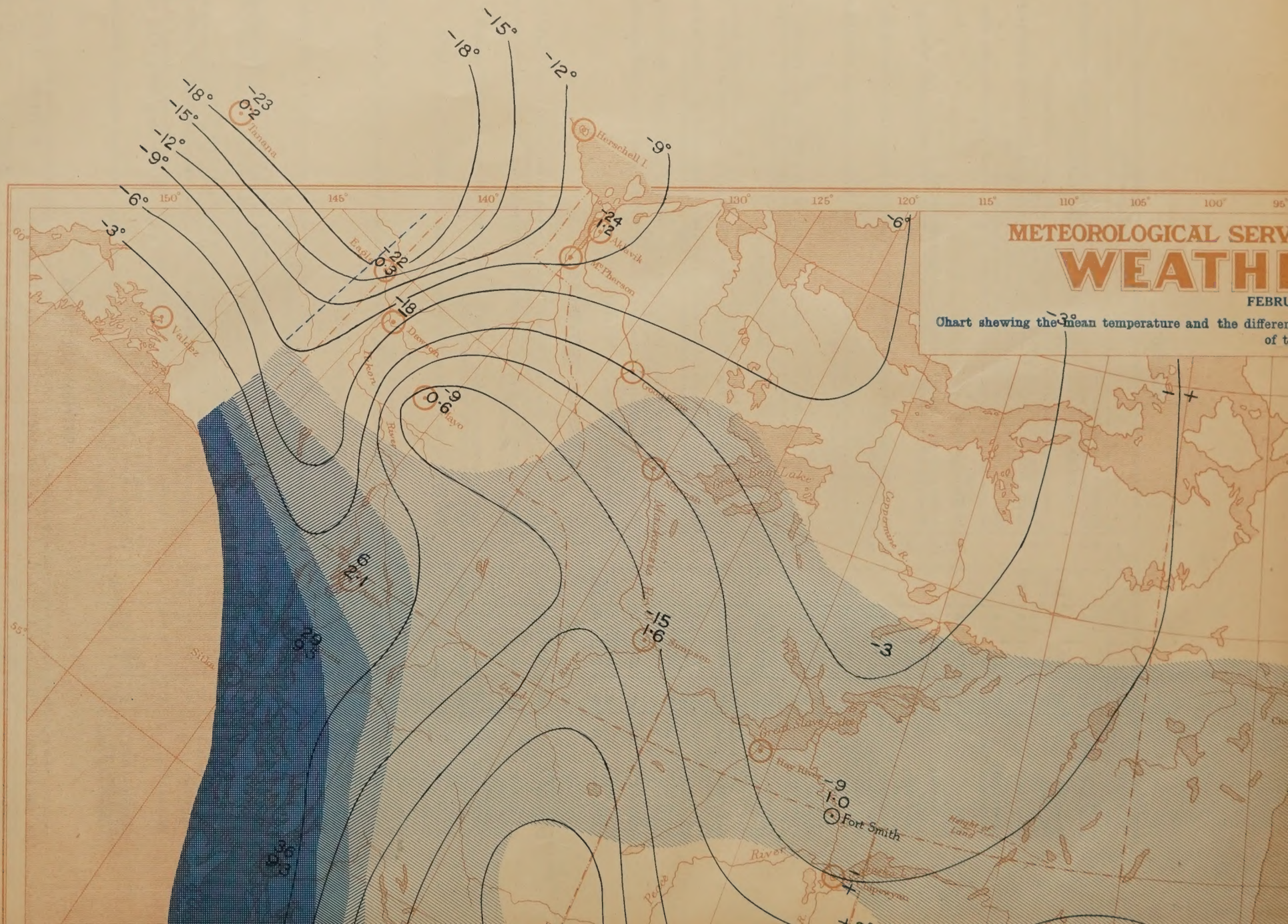
The upper Figures give the mean Temperature.

The lower Figures give the precipitation in inches.

The Black lines shew the difference from the normal mean Temperature.

The shading shews approximately the precipitation of the month.

- Less than 1 inch.
- Less than 2 inches.
- Less than 3 inches.
- Less than 4 inches.
- More than 4 inches


METEOROLOGICAL SERV
WEATHE
FEBRU
Chart shewing the mean temperature and the differen
of t
-18°
-15°
-12°
-9°
-6°
-3°
-23
0·2
Herschell I.
-24
1·2
Barrow
-22
0·3
McPherson
-18
Dawson
-9
0·6
Mayo
-6
1·1
-15
1·6
-3
-9
1·0
Fort Smith
Valdez
Sitka
Fairbanks
Great Slave Lake
Athabasca R.
Peace R.
Fort Simpson
Hay River
Resolution
Smith's Landing
Fort Vermilion
Fort Chipewyan
Lesser Slave L.
Athabasca L.
Peace River
Grande Prairie
Edmonton
Battleford
Prince Albert
Saskatoon
Lac La Ronge
Cumberland House
Norway House
Lake Winnipeg
Lake Athabasca
Great Bear Lake
Great Slave Lake
Yellowknife
Fort Rae
Fort Norman
Fort Good Hope
Arctic Red R.
Fort McPherson
Aklavik
Herschell I.
Barrow
Point Hope
Kotzebue
Nome
St. Michael
Unalakleet
Bering Sea
Gulf of Alaska
Pacific Ocean
150°
145°
140°
130°
125°
120°
115°
110°
105°
100°
95°
60°
55°